

Work Order ID 134286

134286

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Wednesday, July 08, 2015 3:07:58 PM

Item ID: D3373-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Cam Lock
 Start Date: 7/07/15 Start Qty: 10.00 ***10*** Cust Item ID:
 Required Date: 7/07/15 Req'd Qty: 10.00 ***10*** Customer:
 Reference:

Approvals: Process Plan: MLS Date: JUL 09 2015 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3373	Rev A								
100	PURCHASING	0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>29071</u> For D3373-1 Keyed Unalike P/N:1770A51 or Alike P/N: 1770A525Possible Supplier: McMasterConformation of Parts Specification sheet is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.00							
Packaging	Ensure Conformation of Parts Specification sheet is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

CY JUL 09 2015 10

10K 8015-07-13

13

DAS
38
9-89

JUL 13 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

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Start Date: 7/07/15 Start Qty: 10.00 ***10*** Cust Item ID:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and StockIdentify Keyed Unlike as: D3373-1DIdentify Keyed Alike as: D3373-1KA LOCATION : GA								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

DAS
6
9-89

(10) JA JUL 14 2015

ML5 JUL 14 2015

ML5 JUL 14 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Work Order ID: 134286

134286

Parent Item: D3373-1

D3373-1

Parent Item Name: Cam Lock

Start Date: 7/07/15

Required Date: 7/07/15

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP A05.01.05New issueKJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3373-1P		Purchased		No		110	Each	0.0000	1	10			

D3373-1P

Cam Lock

10X SP15-07-B

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

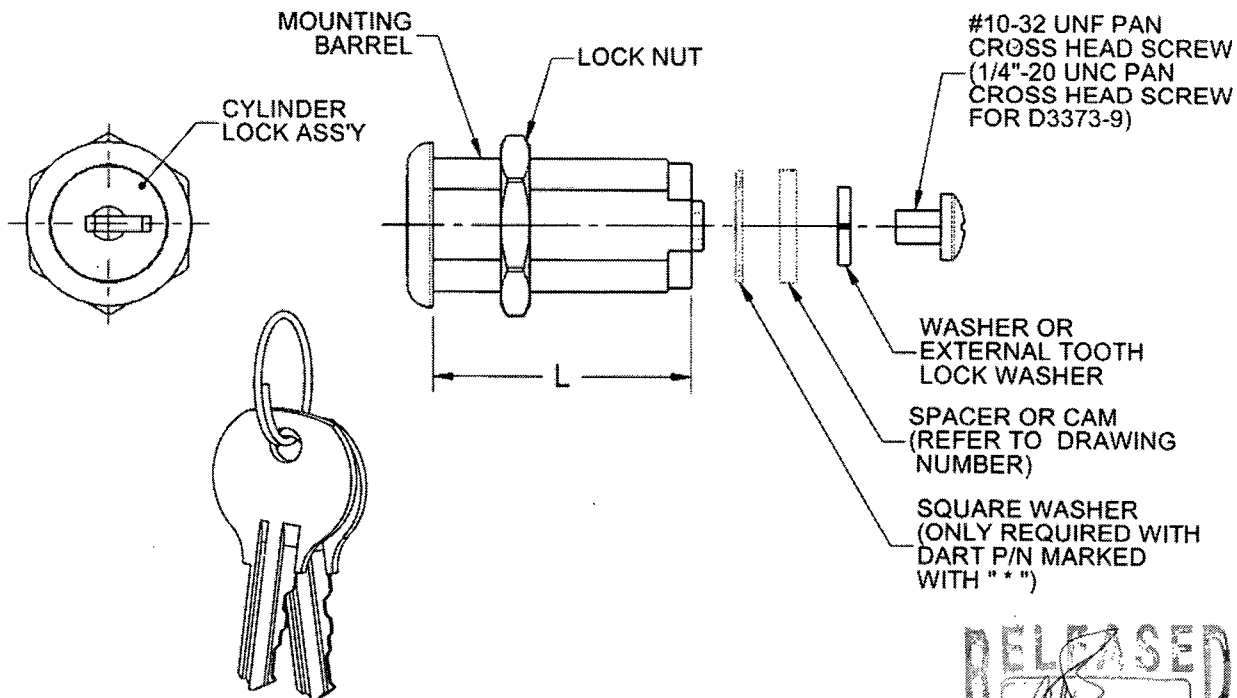
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3373	REV. A SHEET 1 OF 1
DATE 04.12.10		TITLE CAM LOCKS	SCALE 1:1
A	04.12.10	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



DART P/N	SUPPLIERS McMASTER OR IDN CANADA P/N	L (in)	REPLACEMENT KEY DART P/N	SPACER/CAM DRAWING NUMBER
D3373-1	1770A51	0.425	D3373-1K-XXXXX	D3369-5
D3373-3	1770A54	0.935	D3373-3K-XXXXX	D3369-5
D3373-5	1770A41	1.435	D3373-5K-XXXXX	D3370-5
D3373-7*	1770A71	1.715	D3373-7K-XXXXX	D3371-5
D3373-9*	35803 ILCO	0.595	D3373-9K-1866-13	D3372-11

To order replacement keys from McMaster, order 1770A2 and specify key number where "XXXXX" represents key number for 3/4" diameter lock.
Eg: D3373-1K-C377A, oder P/N 1770A2-C377A.

NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES

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11/20/50

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134286 MJS
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SUBJECT TO APPROVAL
DATE 11/20/50



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO29071**

Purchase Order Date 7/9/2015

PO Print Date 7/10/2015

Page Number 3 of 10

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Total: \$156.48

7	97787A661	Expandable Pin	7/13/2015 Yes 7/13/2015	6.00 Each	\$114.68	\$688.08
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AS PER DWG D4711 REV. C
B134278

Line Total: \$688.08

8	D3373-1P ✓	Cam Lock	7/13/2015 Yes 7/13/2015	10.00 ✓ Each	\$6.32	\$63.20
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AS PER DWG D3373 REV. A
B134286
MCMaster P/N: 1770A525

1507-B-

Line Total: \$63.20

10	71400-40	8860K62 302/304 STEEL WIRE 0.025"	7/13/2015 Yes 7/13/2015	5.00 Each	\$20.20	\$101.00
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Note:

7/10/2015

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Luc / Andy

Purchase Order
PO29071

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5807576-03

Page 1 of 2

07/10/2015

Line	Product	Ordered	Shipped
1	94035A560 Tight-Tolerance Socket Drive Shoulder Screw, 18-8 Stainless Steel, 1/4" Diameter X 1/4" LG Shoulder, 10-24 Thread Your Part Number: 71500-30	5 Each	5
2	94035A402 Tight-Tolerance Socket Drive Shoulder Screw, 18-8 Stainless Steel, 3/8" Diameter X 3/8" LG Shoulder, 5/16"-18 Thread Your Part Number: 71500-30	4 Each	4
3	4630A13 Nylon Mesh Sanding Bit, 1/8" Diameter Shank, Shape Number B52, Coarse Grade Your Part Number: 71500-30	2 Each	2
4	4630A13 Nylon Mesh Sanding Bit, 1/8" Diameter Shank, Shape Number B52, Medium Grade Your Part Number: 71500-30	2 Each	2
5	4630A13 Nylon Mesh Sanding Bit, 1/8" Diameter Shank, Shape Number B52, Fine Grade Your Part Number: 71500-30	2 Each	2
7	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length Your Part Number: B134278	6 Each	6 ✓
8	1770A525 Cam Lock with Polished Nickel Finish, Keyed to C420A, 3/4" Diameter Hole, 7/64" Material Thickness Your Part Number: D3373-1P <i>B134286</i>	10 Each	10 ✓
9	8860K62 Bend-and-Stay 302/304 Stainless Steel Wire, 0.025" Diameter, 1 lb Can, 595' Long Your Part Number: 71400-40	5 Each	5
11	7194K28 High-Starting Amp Rocker Switch, SPST, Off-On, Black Your Part Number: 71400-30	2 Each	2 ✓
12	6730T24 Armored Building Cable with Insulated Ground, 12 Gauge, 3 Wires, 100' Long Your Part Number: 16011-00	1 Each	1 ✓
13	2063K141 Fiberglass Panel Air Filter, Not Merv Rated, 8 X 8 Trade Size, 1/2" Thick, Packs of 12 Your Part Number: 71400-30	1 Pack	1
14	51275K89 Polyethylene Tubing for Drinking Water, 3/4" ID, 7/8" OD, 1/16" Wall Thickness, White Your Part Number: 71400-15	50 Feet	50
15	3528T62 Crimping Tool for 3/4" Tube ID, Brass Barbed Fitting for Drinking Water Your Part Number: 71500-45	1 Each	1 ✓
16	3528T13 Ring for 3/4" Tube ID, Brass Barbed Fitting for Drinking Water, Packs of 5 Your Part Number: 71400-15	10 Packs	10 ✓
17	3528T24 Brass Barbed Fitting for Drinking Water, Straight for 3/4" Tube ID X 3/4 Male Pipe Size Your Part Number: 71400-15	6 Each	6 ✓
18	4429K333 Low-Pressure Brass Threaded Pipe Fitting, 3/4 X 3/8 X 3/4 Pipe Size, Inline Reducing Tee Your Part Number: 71400-15	5 Each	5 ✓
19	4429K252 Low-Pressure Brass Threaded Pipe Fitting, 3/8 Pipe Size, Tee Your Part Number: 71400-15	3 Each	3 ✓

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Fax: 330-995-9600

Invoice: 34204708

Purchase Order: PO29071

Release:

McMaster-Carr Number: 5807576-03

ORIGINAL COMMERCIAL

INVOICE

CERTIFICATE OF ORIGIN

Line	Description	Qty & Unit	Unit Price	Extension
5	4630A13 Nylon Mesh Sanding Bit, 1/8" Diameter Shank, Shape Number B52, Fine Grade 71500-30 Country of Origin: United States Schedule B #: 680422 ECCN #: EAR99 NLR	2 EA	\$3.76	\$7.52
7	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length B134278 Country of Origin: United States Schedule B #: 731829 ECCN #: 9A991 NLR	6 EA	\$114.68	\$688.08
8	1770A525 Cam Lock with Polished Nickel Finish, Keyed to C420A, 3/4" Diameter Hole, 7/64" Material Thickness D3373-1P Country of Origin: United States Schedule B #: 830130 ECCN #: EAR99 NLR	10 EA	\$6.32	\$63.20
9	8860K62 Bend-and-Stay 302/304 Stainless Steel Wire, 0.025" Diameter, 1 lb Can, 595' Long 71400-40 Country of Origin: Peoples Republic of China Schedule B #: 722300 ECCN #: EAR99 NLR	5 EA	\$20.20	\$101.00
11	7194K28 High-Starting Amp Rocker Switch, SPST, Off-On, Black 71400-30 Country of Origin: Japan Schedule B #: 853650 ECCN #: EAR99 NLR	2 EA	\$8.17	\$16.34
12	6730T24 Armored Building Cable with Insulated Ground, 12 Gauge, 3 Wires, 100' Long 16011-00 Country of Origin: United States Schedule B #: 854449 ECCN #: EAR99 NLR	1 EA	\$89.17	\$89.17
13	2063K141 Fiberglass Panel Air Filter, Not Merv Rated, 8 X 8 Trade Size, 1/2" Thick, Packs of 12 71400-30 Country of Origin: United States Schedule B #: 701990 ECCN #: EAR99 NLR	1 PK	\$49.50	\$49.50
14	51275K89 Polyethylene Tubing for Drinking Water, 3/4" ID, 7/8" OD, 1/16" Wall Thickness, White 71400-15 Country of Origin: United States Schedule B #: 391732 ECCN #: EAR99 NLR	50 FT	\$1.79	\$89.50
15	3528T62 Crimping Tool for 3/4" Tube ID, Brass Barbed Fitting for Drinking Water 71500-45 Country of Origin: Peoples Republic of China Schedule B #: 820320 ECCN #: EAR99 NLR	1 EA	\$194.18	\$194.18
16	3528T13 Ring for 3/4" Tube ID, Brass Barbed Fitting for Drinking Water, Packs of 5 71400-15 Country of Origin: United States Schedule B #: 741999 ECCN #: EAR99 NLR	10 PK	\$2.04	\$20.40
17	3528T24 Brass Barbed Fitting for Drinking Water, Straight for 3/4" Tube ID X 3/4 Male Pipe Size 71400-15 Country of Origin: United States Schedule B #: 741220 ECCN #: EAR99 NLR	6 EA	\$6.86	\$41.16

Number of Packages: 2

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